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(FILE 'HOME' ENTERED AT 12:39:26 ON 23 MAR 2009)

FILE 'CAPLUS' ENTERED AT 12:39:37 ON 23 MAR 2009
L1 14734 S (PHARMACEUTICAL OR PHARMACEUTICALS) (L) (PULVERIZE OR PULVERIZA
L2 49 S L1 AND (JET MILL)

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L1 14734 SEA FILE=CAPLUS ABB=ON PLU=ON (PHARMACEUTICAL OR PHARMACEUTIC
ALS) (L) (PULVERIZE OR PULVERIZATION OR MILLING OR (JET MILL) OR
POWDER)
L2 49 SEA FILE=CAPLUS ABB=ON PLU=ON L1 AND (JET MILL)

=> d 1-49 bib abs

resulting powder was obtained in the bag with a yield of 240g
RE CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RE

ALL CITATIONS AVAILABLE IN THIS REFORMAT

L3 NUMBER 29 OF 49 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2006 66318 CAPLUS

141 109974

T1 Effect of nanomechanical crystal properties on the comminution process

of particulate solids in a jet mill

AF Institute of Pharmaceutical Technology, University of Wurzburg, Wurzburg, Germany

G2 Journal of Pharmaceutical and Biopharmaceutics (2006), 60(2), 194-201

JOURNAL, ISSN 0969-6421

Elsevier B.V.

Journal

LA English

AB

Blastic-plastic properties of single crystals are supposed to influence

the comminution process in a jet mill.

According to Fahl and B. Bunge, fracture toughness, maximum strain or work of

fracture, for example are strongly dependent on such parameters like

particle size, particle shape and particle size distribution. The dwell

time of particles in a spiral jet mill proved to

be a key parameter for the comminution process.

Therefore 'near-surface'

properties have a direct influence on the effectiveness of the comminution

process. The influence of the particle size on the comminution of the

ground product may very significantly with the nanomechanical response of the

material. Thus accurate measurement of crystals' hardness and modulus is

a key parameter for the optimization of the comminution process of the

spiral jet mill. The recently developed

method for measuring the nanomechanical surface properties of

crystalline bulk materials, namely calotropis, sodium acetate,

lactose and sodium chloride. Pressing a small sized tin into the material

leads to a change in the surface properties of the material. The following diagrams are derived.

The math. evaluation of the force-displacement-data

leads to a value for the modulus of elasticity. The following diagrams investigated material at penetration depths between 10-300 nm. Grinding

expt. performed with a modified spiral jet mill. Grinding

expt. performed with the modified spiral jet mill. The blastic-plastic

properties of a given substance in its breaking behavior. The fitness of

the material to be comminuted depends on the feed material.

The comminution gives results from the comminution process.

RE CNT 12 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 NUMBER 30 OF 49 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2006 66319 CAPLUS

141 109980

T1 Effect of particle shape of active pharmaceutical ingredients

AF Fukunaga, Tadashi; Sawayanagi, Kohji; Ochiai, Seiichi; Shiochika, Kuni

G2 Journal of Pharmaceutical Sciences (2006), 94(1), 900-902

JOURNAL, ISSN 0022-2349

Elsevier B.V.

Journal

LA English

AB

Milling is a common procedure to improve bioavailability of many

active pharmaceutical ingredients. Grinding in water has

been shown to yield an increase in the

cohesiveness of particles. Although particle cohesiveness is desirable

for the comminution process, too much cohesiveness can lead to operational difficulties in a

particle size reduction process in a jet mill. In this

article, the impact of milling via a fluidized-bed jet

mill on the cohesive strength and interparticle force was studied

using lactose as a model system. The results showed that the particle shape

was found to affect both the tensile strength of

the particles and the interparticle force. The results also showed that, having relatively high void fraction by direct tensile test, shows a

no correlation between the cohesive force and the particle sphericity,

but a strong correlation between the cohesive force and the particle size.

The results of the particle size distribution and the direct tensile test show a positive correlation between the cohesive force and the angularity

of the particles.

RE CNT 12 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 NUMBER 31 OF 49 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2006 66320 CAPLUS

141 109981

T1 Microcrystalline cellulose, 2,6-dione

IN Kuroda, Kaoru; Aoki, Naoko; Ochiai, Tomohiro; Shiochika, Akira;

IN Matsunaga, Atsushi; Shiochika, Kuni; Hayakawa, Hidetaka; Asanuma, Etsushi;

PA Nippon Soda Co. Ltd., Japan

JOURNAL, ISSN 0022-2349

Elsevier B.V.

Journal

LA English

PA

PATENT NO.

FAM 001 1

FAM 001 2

FAM 001 3

FAM 001 4

FAM 001 5

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FAM 001 7

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FAM 001 10

FAM 001 11

FAM 001 12

FAM 001 13

FAM 001 14

FAM 001 15

FAM 001 16

FAM 001 17

FAM 001 18

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FAM 001 222

FAM 001 223

FAM 001 224

L3 ANSWER 41 of 49 CAPLUS OMPRIGHT 2009 ACS on STM

AN 1996 388192 CAPLUS

DN 159-94743

OIFP 1996-03-2009

T1 Method for dissolving lipophilic material

IN Bankei, Miura, Miyake, Murakami, Tatsuhiko, Yuihiko, Tomonori, Hiko,

PA Bankei Sugar Refining Co., Ltd., Japan, Genius E. K., Hakusui Chem

SD 30-1001, Kokai Tokyo Koho, 10 10

DE Patent

LA Japanese

PAK Patent

PATENT NO

KIND

DATE

APPLICATION NO

DATE

P1 31 1001001 A 19960116 JP 1996-03-2009 19961129

PR1 31 1001001 A 19960116 JP 1996-03-2009 19961129

AD Solubility of lipophilic materials such as vitamin E is improved by treatment

with wet-type

jet mill in the presence of

surfactants.

T1 The dissolution of lipophilic materials is improved by inclusion, emulsification, and

effusion.

The dissolved lipophilic materials are useful for manufacturing

food, cosmetic, pharmaceuticals, etc.

L3 ANSWER 42-09-49 CAPLUS OMPRIGHT 2009 ACS on STM

AN 1996 621190 CAPLUS

DN 159-257177

OIFP 1996-03-2009

T1 Tablets or granules containing Chlorella powder

IN Bankei, Miura, Miyake, Murakami, Tatsuhiko, Tomonori, Ando, Tomo

PA Chlorella Ind., Japan

SD 30-1001, Kokai Tokyo Koho, 4 10

DE Patent

LA Japanese

PAK Patent

PATENT NO

KIND

DATE

APPLICATION NO

DATE

P1 31 001001 A 19960123 JP 1996-03-2009 19961006

PR1 31 001001 A 19960123 JP 1996-03-2009 19961006

AD Chlorella powder for use in manufacturing tablets or granules are prepared by

grinding dry Chlorella and then adding a lactose

agent for pulverizing the Chlorella and then adding

low level (20%) or high level (60%) of the Chlorella powder as coloant

all showed green color.

L3 ANSWER 43 of 49 CAPLUS OMPRIGHT 2009 ACS on STM

AN 1996 388192 CAPLUS

DN 159-127469

OIFP 1996-03-2009

T1 Lipophilic formulations containing retinol ester as a diluent

IN Backström, Kjell, Johansson, Ann, Linden, Helena

PA Bankei Sugar Refining Co., Ltd., Japan

SD 30-1001, Kokai Tokyo Koho, 20 10

DE Patent

LA Japanese

PAK Patent

PATENT NO

KIND

DATE

APPLICATION NO

DATE

P1 31 0013207 A 19960627 JP 1996-03-2009 19961219

W 31 0013207 A 19960627 JP 1996-03-2009 19961219

M 31 0013207 A 19960627 JP 1996-03-2009 19961219

A 31 0013207 A 19960627 JP 1996-03-2009 19961219

L 31 0013207 A 19960627 JP 1996-03-2009 19961219

E 31 0013207 A 19960627 JP 1996-03-2009 19961219

R 31 0013207 A 19960627 JP 1996-03-2009 19961219

S 31 0013207 A 19960627 JP 1996-03-2009 19961219

D 31 0013207 A 19960627 JP 1996-03-2009 19961219

B 31 0013207 A 19960627 JP 1996-03-2009 19961219

C 31 0013207 A 19960627 JP 1996-03-2009 19961219

T 31 0013207 A 19960627 JP 1996-03-2009 19961219

V 31 0013207 A 19960627 JP 1996-03-2009 19961219

Y 31 0013207 A 19960627 JP 1996-03-2009 19961219

P1 31 0013207 A 19960627 JP 1996-03-2009 19961219

PR1 31 0013207 A 19960627 JP 1996-03-2009 19961219

AD 31 0013207 A 19960627 JP 1996-03-2009 19961219

T1 The dissolution of lipophilic materials is improved by treatment

with wet-type

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surfactants.

T1 The dissolution of lipophilic materials is improved by treatment

LA NUMBER 49 OF 49 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1999-20964 CAPLUS
 DR 110-21994
 DBP 100-14794a
 TI Morphic features variation of solid particles after size reduction:
 A1 Tchibti, R & Akbari, M J: *Wet ball-mill grinding*
 CL *Int. J. Pharm.*, Distr. Montreal, QC, Can
 SP *Int. J. Pharm.*, 1999, 177 (1-3), 131-7
 DO ISSN 0378-5173
 JP Journal
 LA English
 AB Fourteen different types of comminution were used to evaluate the effect of
 different types of jet mill on milling on particle shape.
 While jet mill grinding produced particles with
 a wide range of sizes and degrees of roundness,
 sonification yielded fragments closer in shape to the original crystal.
 Data obtained suggest that the morphic features of daughter fragments are
 determined mainly by the mechanism of size reduction and material structure.

LA NUMBER 49 OF 49 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1206-46355 CAPLUS
 DR 114-36035
 DBP 88-28164
 TI Milling in air-pressure centrifugal mills
 A1 Pfeiffer, J: *Wet ball-mill grinding*
 CL *Int. Mass. Ball. Autom., Akad. Gern.-Bund., Krakow, Pol.*
 SP *Desyleria i Agregatu Chemiczny* (1975), 14(1), 24-7
 DO ISSN 0208-9957
 JP Journal
 LA English
 AB Air jet mills were examined for milling
 very fine zinc oxide particles. Three investigations had milling
 chamber sizes 100, 200, and 400 mm in diameter, 10, 50, and 100 kg/hr.,
 resp. They were superior to other mills with regard to homogeneity, very
 fine particles, and low energy consumption. The advantage of
 jet mills is apparent especially when using hot air or steam.
 The latter also enables operation under sterile conditions, which makes it
 suitable for pharmaceuticals.

=> => d que 110 stat

L3	5	SEA FILE=CAPLUS ABB=ON	PLU=ON	"IZAWA NAOTO"/AU
L4	1	SEA FILE=CAPLUS ABB=ON	PLU=ON	"SATOH NORIE"/AU
L5	35	SEA FILE=CAPLUS ABB=ON	PLU=ON	"YAGI NOBUHIRO"/AU
L6	3	SEA FILE=CAPLUS ABB=ON	PLU=ON	"OUCHI KAZUE"/AU
L7	6	SEA FILE=CAPLUS ABB=ON	PLU=ON	"NARITA SHOICHI"/AU
L8	27	SEA FILE=CAPLUS ABB=ON	PLU=ON	"AOKI NOBORU"/AU
L9	70	SEA FILE=CAPLUS ABB=ON	PLU=ON	L3 OR L4 OR L5 OR L6 OR L7 OR L8
L10	2	SEA FILE=CAPLUS ABB=ON	PLU=ON	L9 AND (MICROCRYSTAL?)

=> d 1-2 bib abs

=> s 19 and (pulveriz? or mill? or powder?)

86272 PULVERIZ?

320743 MILL?

757581 POWDER?

202341 POWD

255 POWDS

202468 POWD

(POWD OR POWDS)

878907 POWDER?

(POWDER? OR POWD)

L11 8 L9 AND (PULVERIZ? OR MILL? OR POWDER?)

=> d 1-8 bib abs

L11 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2009 ACS OR STN

2005 546684 CAPLUS

11 Preparation of macrocyclics of bis(heterocyclicmethoxyphenylpropanoate derivative

IN Matsunaga, Toshi, Maruyama, Taku, Nohizumi

PA Kyowa Hakko Kogyo Co., Ltd., Japan

20 2005-01-20 2005

ODSEN FIXING

DE Journal

LA Japanese

PAK PATENT NO.

PATENT NO.

KIND

DATE

APPLICATION NO.

DETE

F1 30001399

WO 20050000007

AI

20050000007

CA 2510146

AI

20050000007

EP 1405314

AI

20050000007

DE 101030000007

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CN 1642607

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(FILE 'HOME' ENTERED AT 12:39:26 ON 23 MAR 2009)

FILE 'CAPLUS' ENTERED AT 12:39:37 ON 23 MAR 2009

L1 14734 SEA ABB=ON PLU=ON (PHARMACEUTICAL OR PHARMACEUTICALS) (L) (PULV
ERIZE OR PULVERIZATION OR MILLING OR (JET MILL) OR POWDER)

L2 49 SEA ABB=ON PLU=ON L1 AND (JET MILL)

D QUE L2 STAT

D 1-49 BIB ABS

E IZAWA NAOTO/AU

L3 5 SEA ABB=ON PLU=ON "IZAWA NAOTO"/AU

E SATOH NORIE/AU

L4 1 SEA ABB=ON PLU=ON "SATOH NORIE"/AU

E YAGI NOBUHIRO/AU

L5 35 SEA ABB=ON PLU=ON "YAGI NOBUHIRO"/AU

E OUCHI KAZUE/AU

L6 3 SEA ABB=ON PLU=ON "OUCHI KAZUE"/AU

E NARITA SHOICHI/AU

L7 6 SEA ABB=ON PLU=ON "NARITA SHOICHI"/AU

E AOKI NOBORU/AU

L8 27 SEA ABB=ON PLU=ON "AOKI NOBORU"/AU

L9 70 SEA ABB=ON PLU=ON L3 OR L4 OR L5 OR L6 OR L7 OR L8

L10 2 SEA ABB=ON PLU=ON L9 AND (MICROCRYSTAL?)

D QUE L10 STAT

D 1-2 BIB ABS

L11 8 SEA ABB=ON PLU=ON L9 AND (PULVERIZ? OR MILL? OR POWDER?)

D 1-8 BIB ABS

10/582,328 03/23/2009

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FULL ESTIMATED COST	241.80	242.02
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